

Letter of intent (LOI)

Interested parties should submit a Letter of Intent (LOI) on or before February 28, 2020 for each individual proposal. Letter of intent should include applicant contact information and seven questions about proposed study. More details about SAM study selection process, eligibility and funding availability can be found in SAM REF guidelines in SAM Effectiveness webpage.

Email address *

simmons@wsu.edu

Applicant contact information

Applicant Full Name *

Robert Simmons

Organization *

Wahsington State University

Phone number *

3603795610 x207

Proposed Study Information

1. Proposed Study Title *

Implementation and Findings of the Bioretention and Rain Garden Monitoring Protocol

2. Which topic(s) from the SWG's priority list do you propose to address? *

The proposed study topic should be in the SWG's priority list

Gather data about eligible Structural Stormwater Control (SSC) project types to inform future requirements and/or implementation.

3. Select type of project being proposed *

- Survey
- Literature Review & Synthesis
- Environmental Sampling Study
- Other

4. Short Description of the Proposed Study *

250 word limit: describe how results will assess effectiveness and advance regional understanding and permittees' implementation of specific stormwater management approaches

This project will build upon and initiate implementation of the previously funded SAM-funded Rain Garden and Bioretention Assessment Protocol. The project will develop a smartphone app that will enable the user to walk through the assessment steps and input data for each of the metrics. It will also have an optional help feature that will provide instruction for each measurement metric, as well as a flagging feature that pops up when an assessment metric is input and indicates a concern. This feature will show what immediate steps or reporting actions can be taken to address the problem. The app will feed into a regional database that is proposed to be housed at the WA Stormwater Center, which will have separate portals for each interested jurisdiction. It will however allow all the data to be compared regionally and locally to assess where the main concerns and limitations are for rain gardens and bioretention facilities. The app would also be made available for volunteers, homeowners and jurisdiction staff to utilize in assessing facilities, however the type of data collector would be identified in the data base. In addition, this project will work with 2 NPDES permittee jurisdictions to assess 30 facilities that were not assessed in the prior study. This new data will be combined with the data collected in the previous study and will provide a regional assessment of how rain gardens and bioretention facilities are functioning, along with a discussion of design and maintenance approaches to improve their functionality.

5. What type information will be collected or analyzed for this proposed study? *

If existing permittees' data are needed, specify the type, and the expected timing of a request for existing information from Permittees

The data utilized will be the assessment metrics that have been developed in the previous project. It will consist of the data collected in the original assessments, along with data collected from 30 additional facilities.

6. What are the anticipated measurable outcomes and key deliverables that will be produced by the proposed study, and how will they be used by Permittees and the Washington State Department of Ecology? *

- a user-friendly and accessible mechanism (a smartphone app) to collect assessment data for rain garden and bioretention facilities. The app will also provide key actions that can be taken to address concerns identified during the assessment.
- a central, regionally accessible database that can be used by jurisdictions to collect and analyze information related to facilities assessed in their jurisdiction.
- a regional assessment report of how rain gardens and bioretention facilities are functioning, along with a discussion of design and maintenance approaches to improve their functionality.

7. Permittees or agencies you are proposing to coordinate with (provide staff names and contact information, if known) *

Enter "NA" if not applicable.

Wa Stormwater Center, 2 NPDES permittees (potentially the Cities of Puyallup and Port Angeles)

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